

Digital Embellishment System for High Speed Digital Spot Coating / Relief Varnishing and Metallization

DM-MAXLINER 3D

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Sheet fed process



Flat finishing result



Raised finishing results



High gloss level



Matte results

Spot coating, tactile relief
varnishing and digital
metallization in
one pass.

For peak
performance.

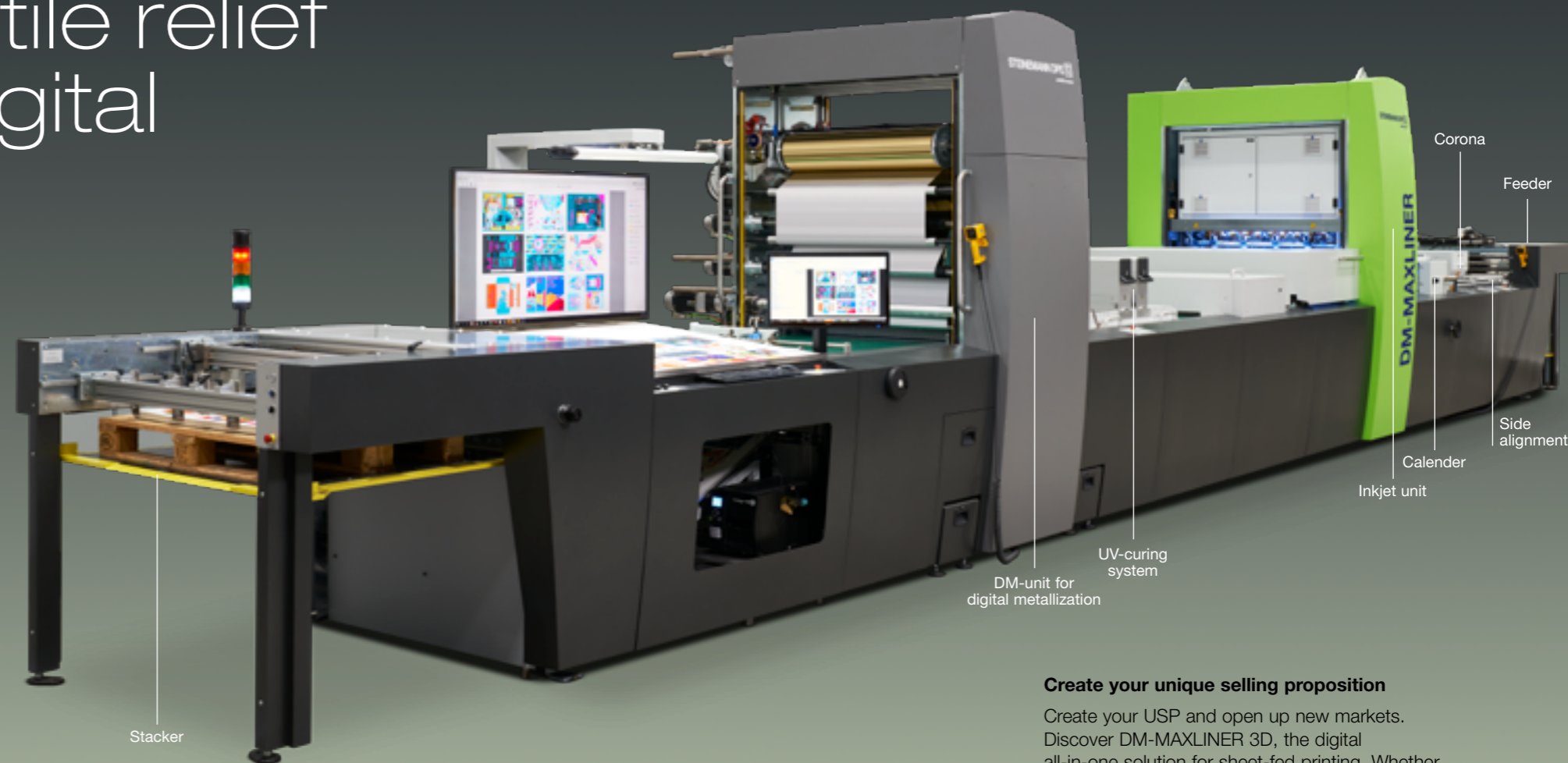
Peak efficiency

The single-pass operation stands for optimum production processes with consistently high-quality embellishment results and perfectly combines the entire range of applications: Varnish and metallization are applied digitally in just one work step – whether relief or spot varnishing, flat or raised metallization. Special highlight: The registration system for matching varnish and metallization images to preprinted sheets by optimum register accuracy and on-the-fly correction to each individual sheet.

DM-MAXLINER 3D: The stand-alone solution for optimized embellishment results. Highly efficient, robust and fit for industrial print production.

Designed for high speed and efficiency

Discover high speed efficiency up to 5,100 sheets/h (B2) with digital metallization. Minimal set-up times, high flexibility and efficiency reduce production costs and ensure optimum process sequences. Reliable, robust design and low maintenance requirements enable long machine life and help to produce more sustainably and reduce costs.



Subject matter expertise

DM-MAXLINER 3D: The digital single-pass solution for your sheet-fed printing combines decades of machine manufacturing experience at Steinemann DPE, a KURZ company, with the global technology leadership in thin-film/transfer products that you've come to rely on from KURZ and sets completely new standards in digital embellishment technology. High-quality, process-optimized, efficient, versatile and robust, the DM-MAXLINER 3D delivers high-caliber embellishment results for the highest production demands. Benefit from our complete machine solution: Machine, software, consumables and services – perfectly system-matched to each other, all from one single source.

Create your unique selling proposition

Create your USP and open up new markets. Discover DM-MAXLINER 3D, the digital all-in-one solution for sheet-fed printing. Whether packaging, commercial printing, letterpress or web-to-print: Impress at the POS with glossy spot or relief varnishing as well as with flat or raised metallization that creates tactile structures. Or simply combine different embellishing options. Make your product unique and gain a significant competitive advantage.



DM-MAXLINER 3D – Details

UV spot coating, relief varnishing & digital metallization

From spot varnish to metallization: Produce the highest quality embellishments in one single-pass operation. Fast and easy.

Discover

- **High-quality inkjet technology for brilliant shine and stunning embellishment results**
- **Highly responsive heating system for accurate temperature control**
- **600 dpi resolution for highest quality demands**
- **Optimal embellishment results for large areas or fine structures**
- **Industry-leading register accuracy**
- **Advanced correction for position, rotation and distortion**

Industry-leading peak performance

With output speeds up to 5,100 sheets/h (B2) and 4,000 sheets/h (B1) with digital metallization the DM-MAXLINER 3D delivers single-pass embellishment performance that allows manufacturers to outpace their competition. Whether it be packaging and commercial printing or web-to-print: Profit from minimum setup times, single-pass efficiency and high speed performance.

The outstanding productivity and efficiency of this machine design is suited for high duty cycles and multiple shift operations. Discover industrial construction which is perfectly tailored to your needs. Your business can benefit from single-pass operation, swift job transitions, brief setup times, increasing your productivity and streamlining your processes. By saving time and reducing costs, the DM-MAXLINER 3D empowers you to work more effectively and elevate your operational efficiency.

DM-MAXLINER 3D - Details

Robust and durable.
Designed for industrial production.

Robust and highly efficient

With over 50 years of experience in designing and building machines for the printing and packaging industry, Steinemann DPE has earned a reputation for delivering equipment that provides years of reliable service. Built with the rugged durability and quality that users all over the world have come to expect from Steinemann DPE, the DM-MAXLINER 3D is designed to minimize wear and tear on major press components and results in more up time and extended machine life.

Transfer foil
indexing
system

Responsibility for tomorrow

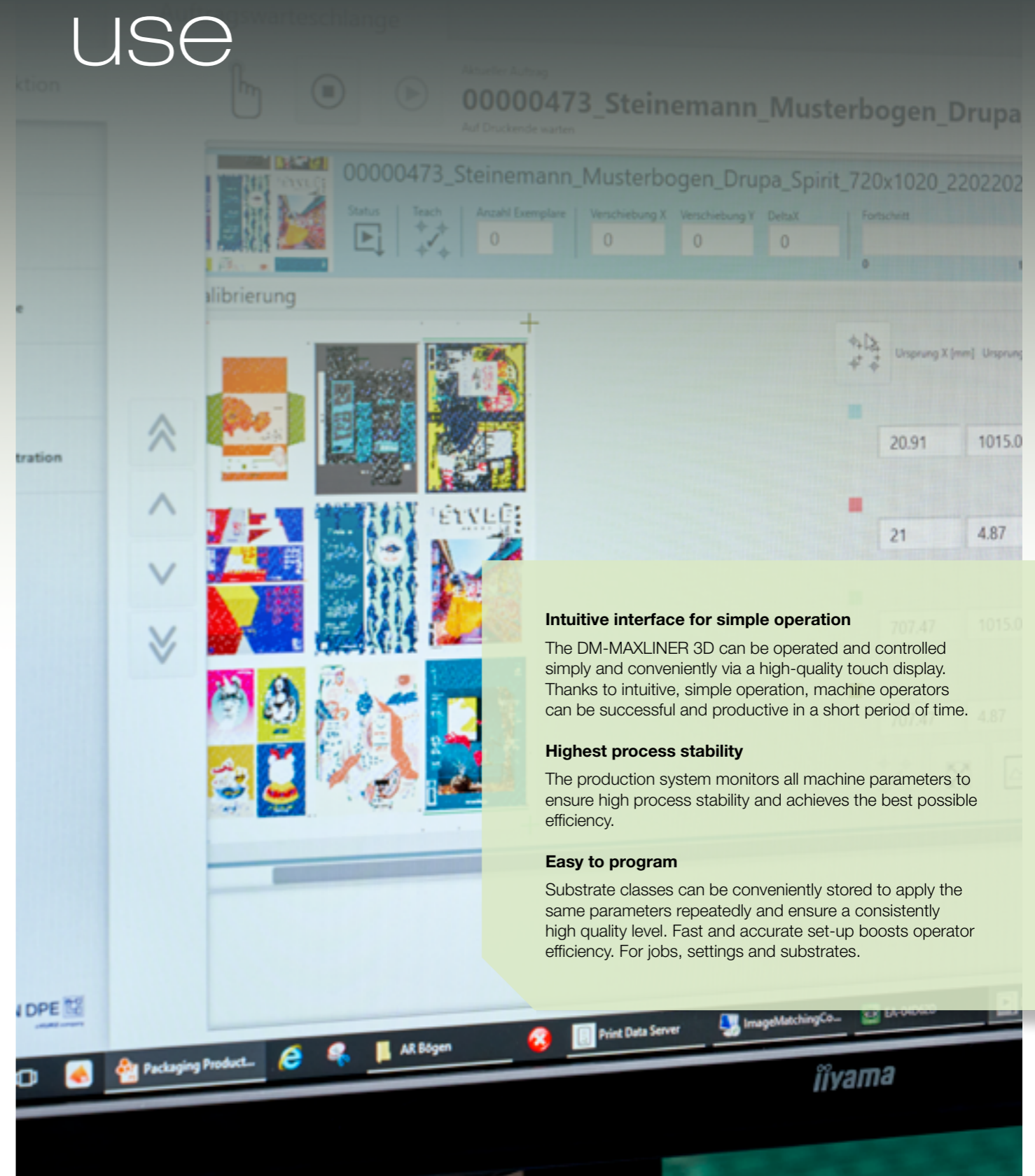
As a pioneer, KURZ strives for sustainability from production to recycling. The DM-MAXLINER 3D is the only machine in its class that provides you with an effective system for foil saving and indexing. Make your digital embellishment processes more efficient, more productive and more sustainable with the DM-MAXLINER 3D.

DM-MAXLINER 3D - Details

Optimal register accuracy

Advanced sensor technology ensures precise metallization and varnishing of your designs with optimal register accuracy. Experience high-quality embellishment results as well as perfect surfaces and filigree flat or tactile structures, all accurately integrated to your most challenging print projects from the first sheet. Have confidence that every sheet meets quality standards and ensures customer satisfaction.

Easy to use



Intuitive interface for simple operation

The DM-MAXLINER 3D can be operated and controlled simply and conveniently via a high-quality touch display. Thanks to intuitive, simple operation, machine operators can be successful and productive in a short period of time.

Highest process stability

The production system monitors all machine parameters to ensure high process stability and achieves the best possible efficiency.

Easy to program

Substrate classes can be conveniently stored to apply the same parameters repeatedly and ensure a consistently high quality level. Fast and accurate set-up boosts operator efficiency. For jobs, settings and substrates.

Technical data DM-MAXLINER 3D

Substrate		
Sheet size (width × length)	DM-MAXLINER 3D B1 (106)	Max. 1,080 × 780 mm
		Min. 290 × 320 mm
	DM-MAXLINER 3D B2 (76)	Max. 760 × 760 mm
		Min. 290 × 310 mm
Sheet weight	100 – 600 g/m²	
Sheet thickness	0.08 – 0.8 mm	
Sheet type	Paper, cardboard, plastic and laminated substrates	
Pile height with EURO-pallet	1,080 (940 + 140) mm	
Pile weight	DM-MAXLINER 3D B1 (106)	Max. 1,600 kg
	DM-MAXLINER 3D B2 (76)	Max. 1,000 kg

Performance digital UV spot varnishing only		
Sheet performance B1 format	Max. 7,000 s/h	
Sheet performance B2 format	Max. 8,500 s/h	

Digital Inkjet Varnishing		
Inkjet system	UV – DoD – Inkjet – Single Pass	
Print format (width × length)	DM-MAXLINER 3D B1 (106)	Max. 1,060 × 760 mm
	DM-MAXLINER 3D B2 (76)	Max. 750 × 750 mm
Native resolution	600 dpi	
Varnish lay down (with redundant inkjet system optional)	4 – 50 (4 – 100) g/m²	
Register accuracy	± 0.2 mm	
Varnish type	Special UV inkjet varnish	
Print data	PDF (standard), BMP, TIFF, ...	

Machine dimensions		
Dimensions (length × height × width)	DM-MAXLINER 3D B1 (106)	12 × 2.8 × 2.5 m
	DM-MAXLINER 3D B2 (76)	12 × 2.8 × 2.2 m

Basic system components		
Sheet conveyor system, sheet cleaning unit (calender)		
Sheet detection even without print marks, register control and adjustment for each sheet		
Digital inkjet varnishing unit with automatic cleaning system		
UV dryer, sample gate with inspection table		
Operation via touch screen monitor, comprehensive image editor, remote service		

Configurable features		
+ DM-unit for digital metallization		
+ Redundant inkjet system for higher performance		
+ Integrated data RIP		
+ Image Matching Control (IMC) system		
+ Fully variable data for different embellishments on each sheet		
+ Pinhole-killer for improved low grammage results		
+ Pinning module		
+ IR module for higher gloss		
+ Corona		
+ Ionized air on feeder and stacker		
+ Inkjet heads for standard compliant braille print		
+ Barcode printer for individual marking		

Technical data for digital metallization

Performance digital metallization and digital UV spot varnishing		
Sheet performance B1 format	Max. 4,000 s/h	
Sheet performance B2 format	Max. 5,100 s/h	

Digital metallization parameters		
Number of simultaneously mountable DM-webs		
Width of DM-webs	DM-MAXLINER 3D B1 (106)	50 – 1,060 mm
	DM-MAXLINER 3D B2 (76)	50 – 750 mm
DM-web length	3,000 m	
Core diameter	76.2 mm	
Transfer metallization	KURZ DIGITAL METAL® DT-S	
Glue type	Special UV inkjet glue	

Machine dimensions		
Dimensions (length × height × width)	DM-MAXLINER 3D B1 (106)	1.5 × 2.8 × 2.5 m
	DM-MAXLINER 3D B2 (76)	1.5 × 2.8 × 2.2 m

Basic system components		
Complete digital metallization system with indexing system and automatic web tension adjustment		
Integrated electrical lifting device for quick, automated roll changing		

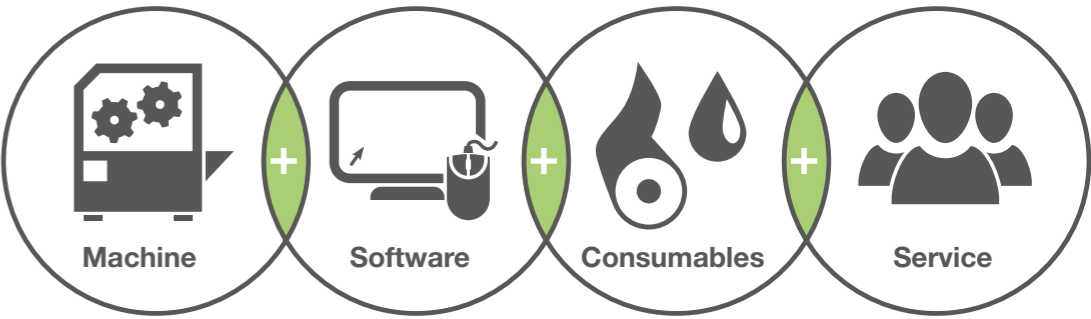
Configurable features		
+ Set of brakes for additional webs		
+ Set for off-line foil roll preparation (shafts and brakes)		

All technical data are approximate

KURZ – Your one stop solution partner

With our complete solution, we achieve flexible metallization with high efficiency. From the machine to the transfer metallization, we offer you all components from one single source – perfectly matched to each other.

See for yourself – with our printed samples and portfolio of available shades.



Further digital embellishment solutions



Here you will find further digital embellishment solutions. No matter whether web-fed or sheet-fed requirements, flat or raised embellishments, we have the right solution for you.

Convince yourself!



We look forward to
hearing from you!

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